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NPIC/TSG/RED-251-70
14 October 1970

MEMORANDUM FOR THE RECORD

SUBJECT: NPIC Collocation with EOI Facility

1. The following factors support the feasibility of the relocation of NPIC with the EOI facility:

(1) Viewing Equipment. Present NPIC viewing equipment has naturally evolved on an optical basis since the acquisition product is optical. EOI imagery could impose emphasis on electronic viewing systems which can also be adapted to optical imagery. This could result in a much more efficient exploitation process.

(2) Reproduction Equipment. Present photo reproduction systems are being obsoleted by both new dry materials, the need for color capability, and the coming EOI imagery which may be recorded on magnetic tape. This implies the need for new design concepts for the imagery reproduction facilities.

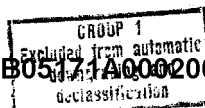
(3) Data Processing. EOI imagery, which will be digitally recorded on magnetic tape, implies the need for extensive expansion of the NPIC data processing facilities in order for them to be capable of handling the load of this increase in the quantity and complexity of digital data.

(4) Vibration. The high performance optical systems which are currently required, and which will be improved in the future, require an essentially vibration free environment. This must be incorporated in the initial design and construction of the facility.

(5) Electrical Power Requirement. The increased utilization of electronic computers, special illumination, air conditioning and semi-clean room facilities will demand the provision of electrical power far in excess of that currently available to the Center, which should be provided for in the initial design of the facility.

(6) Electronic Emissions. The extensive utilization of electronic processing and display equipment will be characterized by large amounts of electro-magnetic radiation. Facility design must provide means for personnel protection and maintenance of security under these circumstances.

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(7) Color Imagery. The exploitation of imagery and color will probably require special lighting and decoration considerations. This can be best accomplished in the design before the facility is built.

(8) High Speed Response. The nature of the EOI read-out system implies that the read-out function must be accomplished on even a higher speed basis than is currently true of the photographic system. The proximity of the intelligence analyst facility, permitting the feasibility of electronic transmission between the imagery exploitation facility and the analyst facility, will assist in the accomplishment of higher speed response to intelligence requirements.

(9) Silver Recovery and Pollution Control. Requirements for accomplishment of these factors are now matters of high priority. In order to be responsive to them, they should be incorporated in the initial design of the facility.

(10) Parking. The parking situation at the present Center has a specific limiting effect on the flexibility of operations both due to limitations on personnel hiring practices and the need for work forces around the clock.

(11) System Design. The evolutionary history of NPIC type of imagery exploitation is now sufficient to provide much needed data for the design of a totally integrated imagery exploitation system, an invaluable tool for the corresponding design of the exploitation facility.



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